

87

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/522,409	PHILIPPE ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Anh V. La	2612	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the filing on January 26, 2005.
2. ☒ The allowed claim(s) is/are 13-24.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date <u>4/27/05</u></li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|--|---|

**I. Statement of Reasons for Allowance:**

The following is an examiner's statement of reasons for allowance:

The prior art cited herein fails to disclose a device to deliver an alarm signal upon detection of a gravitational wave generated by a body falling into a swimming pool, comprising a means of sensing aquatic waves that is placed beneath the surface of the water of the swimming pool, a means of converting the aquatic waves sensed by the sensing means into an analogue electrical signal, a differential detector that includes comparison means for comparing a sensitivity threshold value of the differential detector with the value of the analogue electrical signal and to deliver the alarm signal when the analogue electrical signal exceeds the sensitivity threshold value, the differential detector comprising autoregulation means which includes an analogue/digital converter that receives the analogue electrical signal that is preamplified as input and delivers a digital signal as output when a disturbance in the water occurs, a comparator, the positive input of which receives the preamplified analogue electrical signal and a microprocessor programmed to deliver, in response to the detection of the digital signal delivered by the converter, a digital signal to the negative input of the comparator, the output pulse of which have a variable width, which increases with the duration and with the magnitude of the disturbance so as to automatically increase the threshold for tripping an alarm means and therefore to reduce the sensitivity of the device when the sensing means detects an atmospheric disturbance, wherein the microprocessor triggers the alarm means when the width of the output pulses from the comparator is

Art Unit: 2612

larger than a predetermined critical reference and wherein the frequency F of the analogue electrical signal lies between two predetermined values F1 and F2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **II. Examiner's Amendment:**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

### **Examiner's Amendment**

#### **In the claims:**

In claim 1, line 6, the phrase "sensing manes" has been changed to - - sensing means--.

In claim 1, line 13, the phrase "said preamplified analogue electrical signal" has been changed to - -a preamplified analogue electrical signal --.

In claim 1, line 24, the phrase ", such as wind" has been canceled.

Art Unit: 2612

III. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Curry teaches an alarm system for swimming pools.

Mowday teaches a pool monitoring system including a monitoring unit with a detection mechanism adapted to transmit an alarm signal upon the detection a human falling with the body of water.

Nelson teaches a wave motion detector including a transducer responsive to positive and negative pressure changes in swimming pool water and generating corresponding electrical signals.

Campbell discloses a swimming pool alarm that utilizes a standing wave pattern set up from a sound wave generator to detect entry of an object into the pool.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh V. La whose telephone number is (571) 272-2970. The examiner can normally be reached on Mon-Fri from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on (571) 272-3068. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2612

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



**ANH V. LA**  
**PRIMARY EXAMINER**

Anh V La  
Primary Examiner  
Art Unit 2612

AI  
September 25, 2006